THE CALIFORNIA VETERINARIAN





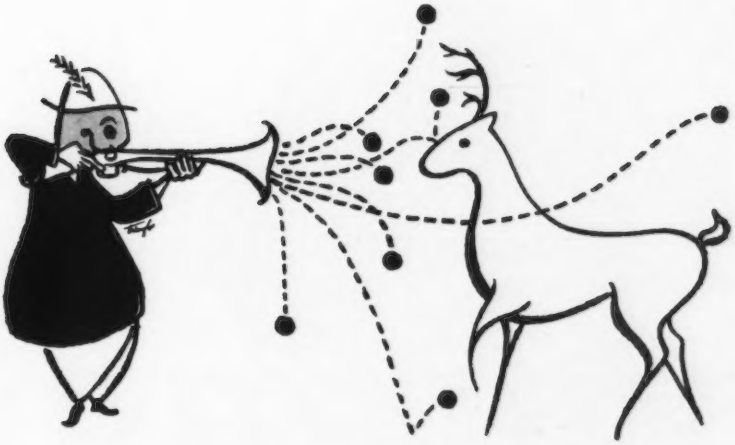
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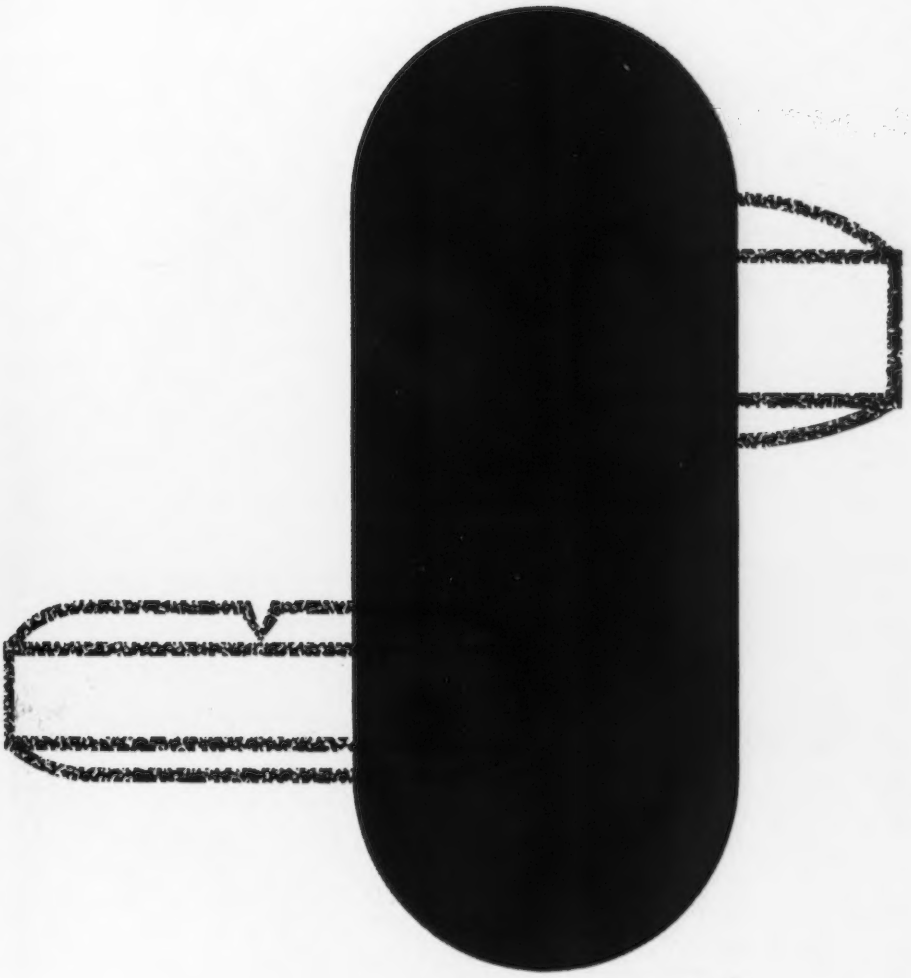
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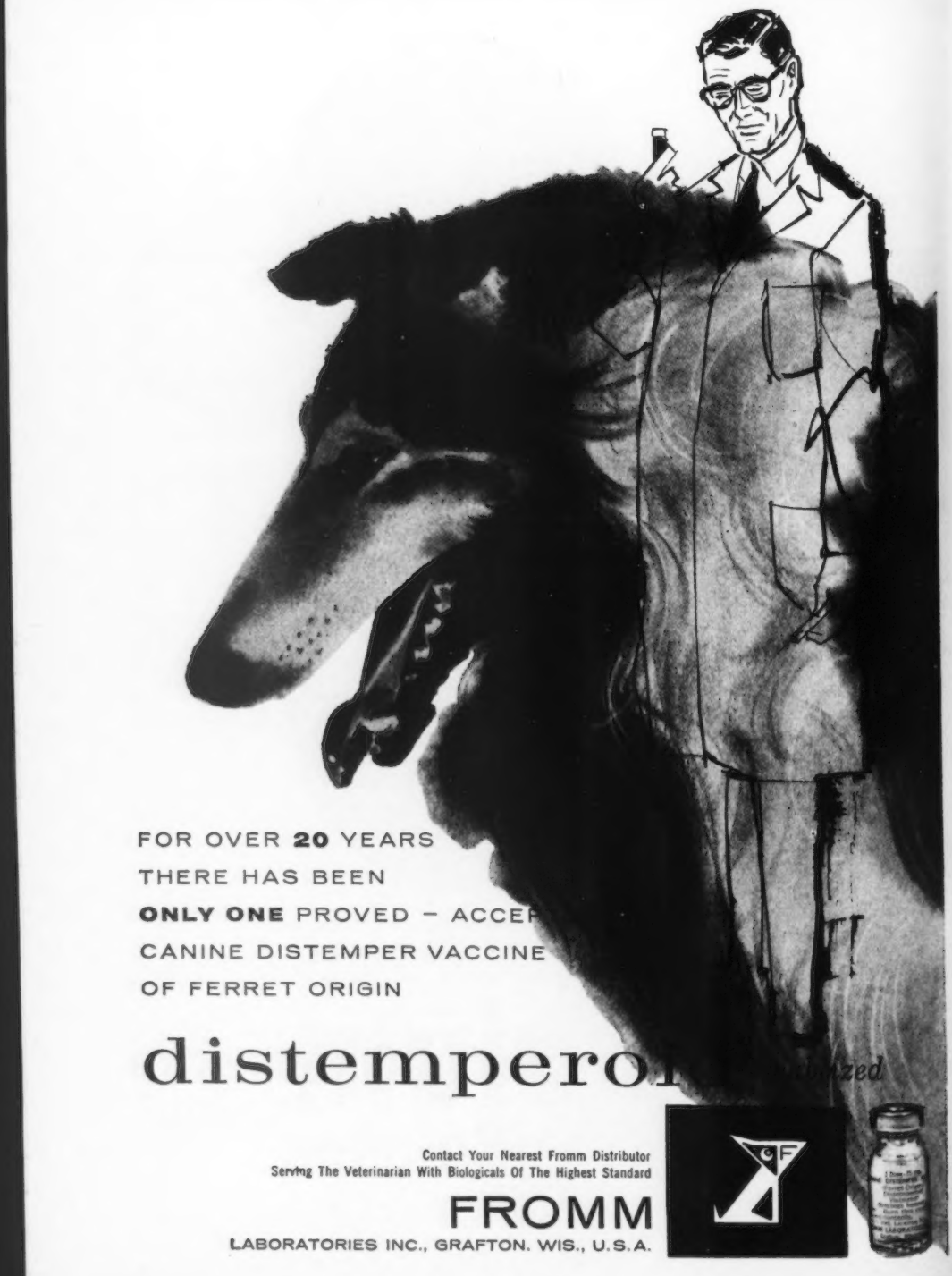
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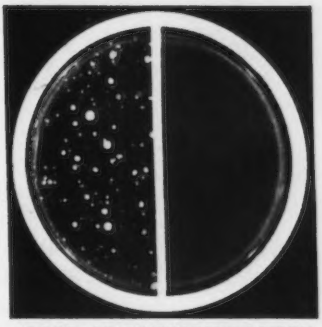


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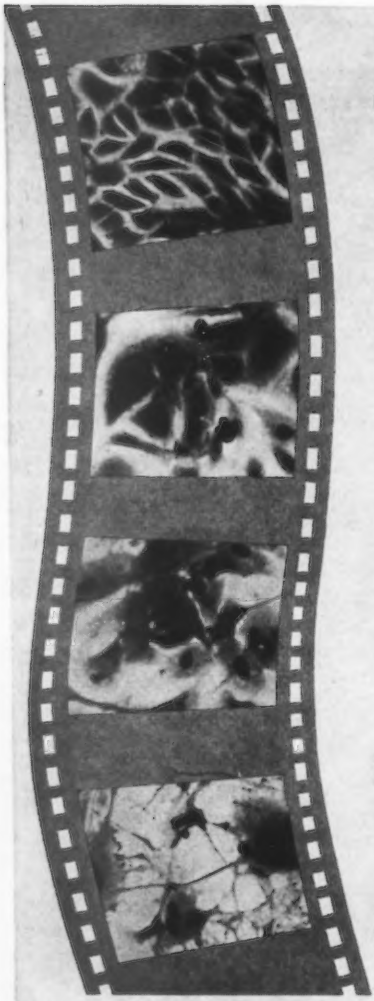
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Clinical and Research References:

1. Sinha, S. K., et al, Studies on Canine Distemper Immunization with a Tissue Culture Vaccine. Vet. Med., Vol. 55, No. 4, April 1960.
2. Burgher, J. A., et al, The Immune Response of Dogs to Distemper. Cornell Vet., Vol. 48, No. 2, 1958.
3. Paton, I. M., et al, Progress in Distemper Immunization. Jen-Sal Small Animal Topics, August 1960.
4. Dept. of Biological Research, Jensen-Salsbery Laboratories. Unpublished Research Data.

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THE CALIFORNIA VETERINARIAN

JANUARY-FEBRUARY, 1961

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Clinical Trial of Parenteral Sulfadimethoxine (Bactrovet*) in Small Animal Practice

J. J. SPANABEL, D.V.M., *Fairmont, West Virginia*

In recent years many new or more convenient and potent therapeutic agents have been added to the veterinarian's armamentarium. Parenteral anthelminthics, purified hyperimmune canine globulin, newer synthetic corticosteroids, and lyophylized parenteral amino acid preparations are but a few of the products that have contributed significantly to the practice of small animal medicine.

Sulfadimethoxine (Bactrovet*) is a recent contribution of particular significance in the important area of broad spectrum antibacterial agents. This potent antibacterial agent was first tested clinically in human medicine, and has gained wide acceptance in the treatment of many infectious processes caused by a variety of gram-positive and gram-negative organisms.

Later, in veterinary medicine, Johnson[1] and Fish[2] reported favorable responses in approximately 90 percent of small animal patients that were treated orally once daily with sulfadimethoxine. Similar results were obtained in my own clinical studies and subsequent routine use of sulfadimethoxine tablets.

This paper reports the results of a more recent clinical study made with a parenteral form of sulfadimethoxine.

Materials and Methods

The parenteral solution used contained 100 mg. of sulfadimethoxine per cubic centimeter. The suggested dosage was a single injection (intramuscular, subcutaneous or intravenous) of 12.5 mg./lb. body weight (1 cc./8 lb.), followed by single daily injections of 6.25 mg./lb. (1 cc./16 lb.) thereafter. Increased dosages were recommended for severe infections.

Because the supply of test material was limited, an attempt was made to select cases for treatment in which a broad spectrum antibacterial agent was clearly indicated. Four patients were given parenteral Bactrovet intravenously, all others were treated by the subcutaneous route. In the majority of cases, the total calculated dosage was adjusted to the closest and most convenient 0.5 or 0.75 cc. and, in general, this dosage exceeded the recommended dosage rate by a few milligrams per pound. The dosage rate was doubled in severe, fulminating infections. The period of treatment depended on the clinical response, but averaged five days for the canine and four days for the feline patients. Therapeutic responses were graded from poor to excellent.

Results

The results obtained during this study are summarized in Table 1 below. A total of 45 patients (40 dogs and 5 cats) was treated for a variety of conditions, ranging from abscesses to febrile illnesses of unknown etiology. A good to excellent therapeutic response was obtained in approximately 92 percent of the 40 canine patients and a poor to fair response in approximately 8 percent. In 4 of the 5 feline patients the response was excellent while 1 showed no response. The over-all results in both the feline and canine cases were good to excellent in 91 percent, and poor to fair in 9 percent.

Representative Case Reports

Case 1: A 40-pound, four-year-old male English Setter with an infected foot had un-

TABLE 1—*Response of Canine and Feline Patients to Parenteral Bactrovet*

Diagnosis	Excellent	Good	Fair	Poor	Excellent	Good	Fair	Poor
		Dog				Cat		
1. Abscesses	3							
2. Cystitis					1			
Hemorrhagic	1							
3. Distemper (secondary bacterial)	2	1						
4. Local infections								
Severe purulent infection of toe	1							
Near gangrene of leg (amputation)	1							
5. Keratoconjunctivitis (Complication of distemper)			1					
6. Kennel Cough	1	1	1					
7. Lacerations	3							
8. Metritis (severe-operated)				1				
9. Osteomyelitis	1							
10. Otitis								
Chronic, purulent		1						
Purulent with cellulitis	1							
11. Pneumonia	2				2			1
12. Prostatitis		1						
13. Pyometra	3							
14. Septicemia	1							
15. Surgery: Compound metatarsal fracture (gun shot)	1							
Femoral fracture (contaminated-pinned)	1							
Fracture (open reduction)	1							
Elbow luxation (open reduction)	1							
Repair large diaphragmatic and umbilical hernias	1							
Removal of 10 lb. splenic tumor	1							
16. Undiagnosed febrile illnesses	7				1			
Total	33	4	2	1	4			1
Percentage	82.5	10.0	5.0	2.5	80.0			20.0

*Trademark Pitman-Moore Co., Indianapolis, Ind.
[1]See references at end of article.

dergone surgery on the foot the week before, but had removed the bandage and mutilated the wound. The foot and leg were swollen and discolored, and symptoms of septicemia were evident. A 5 cc. dose of Bactrovet was given initially, and 2.5 cc. doses were given for the following three days. The affected leg also was soaked frequently in an Epsom salt solution. The leg and foot were normal in appearance in one week, and the dog was able to bear full weight on the foot.

Case 2: A 30-pound, three-month-old male German Shepherd with large umbilical and diaphragmatic hernias was referred for surgery. This patient received four daily intravenous injections of Bactrovet postsurgically (4 cc. on the first day and 2 cc. on each of the following three days). There were no postoperative complications.

Case 3: The owner of a 36-pound male dog of mixed breeding had noticed that the animal was sick only on the day before. A presumptive diagnosis of leptospirosis was made. The temperature was 105, the sclerae were very injected, the tonsils resembled ripe cherries, and the patient was "humped up" and had the appearance of a whipped dog. There were small areas of hemorrhage in the skin, particularly in the inguinal area. There was no evidence of pain when the prostate was palpated. The results of Bactrovet therapy in this case were remarkable; after four daily injections of 4.5 and 2.25 cc. the patient appeared to be completely recovered and looked like a new dog.

Case 4: A 12-pound four-year-old male Chihuahua contracted kennel cough during an outbreak at the hospital. Bactrovet was given intravenously for a 72-hour period, at which time the cough suddenly stopped. The dosage was 1.5 cc. on the first day and 0.75 cc. for the next two days. Other patients during this outbreak did not respond so dramatically and required up to eight successive days of treatment with Bactrovet.

Discussion

The results obtained during this clinical study of parenteral sulfadimethoxine were extremely gratifying, and compare favorably with those reported for oral therapy,[1,2] and with those reported by Brinkman and Burch[3] following use of the parenteral form either alone or in combination with the tablets. This last report, based on 180 case reports submitted by 10 small animal practitioners, indicated that approximately 88 percent of the total of 138 dogs and 42 cats responded favorably.

The efficacy of sulfadimethoxine in veterinary medicine is comparable to that reported in human medicine. Williams *et al.*[4] reported a satisfactory response in 94 percent (69 percent excellent; 25 percent good) of 75 patients treated for purulent upper respiratory infections. Katsamper and McNabb,[5] reporting on a double blind test, found a satisfactory reponse of 88.9 percent with sulfadimethoxine and of 80.0 percent with Tetracycline in patients treated for upper respiratory infections. Renzi[6] reported that all of 46 patients treated for a variety of acute infections responded satisfactorily (in 29 cases response was graded excellent). Fodstad[7] reported a satisfactory response in 52 of 57 patients treated for skin infections. No unfavorable side effects were reported by any of these investigators.

This compound appears to be extremely versatile and effective in prophylaxis, as well as in the treatment of contagious diseases and established infectious processes, as exemplified by these case reports. Particularly gratifying were the results obtained in cases of undiagnosed febrile illnesses. The small animal practitioner is frequently confronted with cases of this nature in which it is impractical or impossible to identify specific organisms. It is frequently necessary to initiate therapy immediately, and it is imperative that the antibacterial agent selected be as potent and have as broad a spectrum of activity as possible. Sulfadimethoxine appears to fulfill these requirements adequately.

Equally good results were obtained when this agent was used as a postsurgical precautionary measure. Since its initial use in this manner (after surgical repair of large umbilical and diaphragmatic hernias, case 2), sulfadimethoxine has been used routinely as a postsurgical prophylactic measure, with excellent results. Abscesses, wound infections, and other bacterial infections have usually responded equally as well to treatment as in case 1. Because the number of cats treated during this study was limited, no definite conclusions can be drawn. Nevertheless, four of the five cats treated showed an excellent response, and none of them developed anaphylactic shock or any other unfavorable response following either intramuscular or intravenous administration.

In addition to the high rate of clinical effectiveness, the convenience of once-a-day dosing, the available choice of injection routes, and the freedom from unfavorable side effects were particularly impressive.

Summary

In 45 small animal patients treated with a parenteral form of sulfadimethoxine, an overall response of good to excellent was obtained in 91 percent, and poor to fair in 8 percent. The product was effective in a variety of infectious conditions. It was exceptionally convenient to administer, and no unfavorable side reactions were seen.

(Continued on next page)

Los Angeles County Livestock Department Holds Open House



ACTING MAYOR LELAND WEAVER, South Gate, left, welcomes Dr. ROBERT J. SCHROEDER at opening of new quarters.

The Los Angeles County Livestock Department held open house in its new offices at 9744 Atlantic Avenue, South Gate, Calif., on November 2, 1960.

For 36 years the department had its headquarters in the Administration Building of the old Union Stockyards in Vernon.

During this period it served the County of Los Angeles in the field of animal disease control and in doing so gained national and international recognition and prestige.

When the Union Stockyards ceased operation, the Livestock Department selected South Gate as a convenient location from which to serve the public and the livestock industry of the county. This included the two new stockyards—one in the City of Dairy Valley and the other in the City of Industry.

Several exhibits were set up for the open house, depicting Livestock Department activities in tuberculosis, brucellosis, rabies, mastitis and vesicular disease control. Public health activities in other fields were also demonstrated. Several exhibits illustrated the extremely varied nature of the department's laboratory in the fields of bacteriology, histopathology, parasitology, serology, mycology and tissue culture.

The physical facilities of the department's new quarters are a considerable improvement over those they formerly occupied. As the director, Dr. Robert J. Schroeder, pointed out, the work flow pattern through both the office and laboratory are immeasurably better. The new atmosphere also contributes much to the morale of the staff and enables them to better perform their duties in animal disease control and veterinary public health.

One of the day's highlights was the appearance of the founder of the department, Dr. L. M. Hurt, accompanied by Dr. C. H. Reid, veterinary practitioner, who was also formerly with the department.

Dr. Hurt and Dr. Reid each gave a short talk on some of the history of the department, and both expressed their best wishes for continued success in the future.

(Continued from preceding page)

References

[1]Johnson, P., and White, P. T.: "Clinical Results with a New Antibacterial, Sulfadimethoxine (Bactrovet), in Small Animals," *Allied Vet.*, 31 (1960), 5-7.

[2]Fish, T. G.: "A New Sulfonamide for Small Animal Practice," *Vet. Med.*, 55 (1960), 65-67.

[3]Brinkman, D. C., and Burch, G. R.: "Clinical Results with Parenteral Bactrovet (Sulfadimethoxine) in Small Animals," *Allied Vet.*, 31 (1960), 132-134.

[4]Williams, R. T., Etienne, R., Cloyd, M., Randolph, B., Hoard, T., and Reed, T.: "Sulfadimethoxine (Madribon) in Upper Respiratory Infections," *Antibiotic Med. J.*, 7 (1960), 358-363.

[5]Katsamper, C. P., and McNabb, N.: "A comparison of Sulfadimethoxine (Madribon) with Tetracycline in the Treatment of Acute Upper Respiratory infections," *Antibiotic Med. J.*, 7 (1960), 574-578.

[6]Renzi, V. A.: "A Clinical Evaluation of Sulfadimethoxine," *Med Times*, 88 (1960), 1043-1046.

[7]Abstract, *J.A.M.A.*, 173 (1960), 1855-1856, of Fodstad, R.: "Sulfadimethoxine for Skin Diseases (foreign letter), *Tidsskr. norske laegefor.*, May 15, 1960.

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Report of Council of Veterinary Practice, AVMA

Meeting of October 10-11, 1960

This was my first meeting as a member of the council. The councils are set up for planning, program initiation and to make recommendations to the Executive Board and House of Delegates.

Eight of the ten members were in attendance and it was a busy day and one-half. Four of the members have had experience as delegates and the others considerable association experience, so the business was handled smoothly and carefully. Doctor James Hay is the staff consultant and we were assisted by Doctors L. M. Jones and Harry Kingman when they were needed.

The council is divided into the following committees:

1. Liaison Federal, State and Municipal Veterinarians
2. Veterinary Economics and Surveys
3. Allied Organizations
4. Organization and AVMA Sectional Development
5. Biological and Pharmaceutical Supply Problems
6. Specialized Veterinary Medical Problems

Several items of business that had been under study for some time were completed.

A survey chiefly concerned with incomes of veterinarians in individual practice was made in 1950, another in 1955 and another will be made for 1960. In 1955 thirty-two per cent of our members took time to reply. We hope for an even better response this time.

Another survey is in the mail to a restricted number of veterinarians dealing with realistic value of the sale of a practice. With the many accidental deaths now occurring, especially from our methods of fast transportation, this should be given serious analysis. This is especially important to many widows and families who suddenly face this problem and no one is in a position to give much assistance on what value to place on the practice. If you receive one of these please take time to analyze it and return it at an early date. Remember your wife could be the next to face this problem. We believe we can arrive at a fair price that may be used as a guide to help these families at a very critical time.

The council hopes to develop a set of tentative standards dealing with the hip displasia examination of dogs. This is of great importance to the procurement of sentry dogs for the armed forces and for the guidance of dog breeders. A high level committee expects to complete this report as rapidly as possible.

Interprofessional relations will receive special study this winter. We hope to be able to help in some places where relations become strained. Our profession is growing. Let each one of us do our bit to help it grow in stature there by helping ourselves and the veterinarians of the future.

Respectfully submitted,

CHAS. J. PARSHALL, D.V.M.

Five California Speakers at Intermountain VMA Meeting

At the 33rd annual meeting of the Intermountain Veterinary Medical Association, January 12-14, in Salt Lake City, five California speakers were on the program.

Dr. James E. Stuart, Chief, Division of Animal Industry, California Department of Agriculture, as chairman of the Animal Health Committee, spoke on infectious and contagious diseases of livestock and poultry.

Dr. Kerry Willetts, Los Angeles, spoke on Genetics, Practice Tips for Small Animals, and Diets for Sick Animals.

Dr. Charles E. Cornelius, Davis, spoke on Electrolytes and Calculi of Sheep.

Dr. H. E. Gaskill, USDA, San Francisco, discussed the Obligation of the Veterinarian to Guard the Nation's Meat and Poultry Supply.

Dr. Reginald Stocking, Los Angeles, gave a demonstration on Practical Casting Procedures for Small Animals.

Death of Dr. A. F. Hanna

Dr. A. F. Hanna passed away at Ferndale, California, after a brief illness on October 3, 1960. He was born in 1882 and graduated from San Francisco Veterinary College in 1912, obtaining his California license that same year. He was employed by the State Veterinarian of California from July 3, 1917, to November 1, 1918, as a Deputy State Veterinary Inspector and served principally in sheep scab eradication.

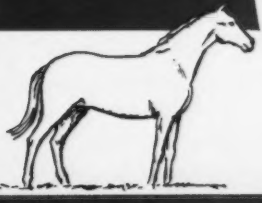
From November 1, 1918, to March 5, 1919, he was on military leave in connection with World War I. When the California State Department of Agriculture was formed in 1919, Dr. Hanna became a field veterinarian in the Division of Animal Industry. He left the Department on January 1, 1923, to engage in veterinary practice, first locating in Fortuna and then relocating at Ferndale in 1930 where he practiced until his retirement in 1948. Dr. Hanna was very active in the early efforts of Humboldt County to control bovine tuberculosis.

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Principles of Veterinary Medical Ethics

AVMA–CVMA

PREAMBLE: The honor and dignity of our profession lies in our obedience to a just and reasonable code of ethics set forth as a guide to the members. The purpose of this code is far-reaching because exemplary professional conduct not only upholds honor and dignity, but also enlarges our sphere of usefulness, exalts our social standards, and promotes the science we cultivate.

Briefly stated, our code of ethics is the foundation of our individual and collective efforts. It is based on the Golden Rule.

Section I

The principal objectives of the veterinary profession are to render service to society, to conserve our livestock resources, and to relieve suffering of animals. A veterinarian should conduct himself in relation to the public, his colleagues and their patients, and the allied professions, so as to merit their full confidence and respect.

Section II

A veterinarian may choose whom he will serve. Once he has undertaken care of a patient he must not neglect him. In an emergency, however, he should render service to the best of his ability. He should not solicit clients.

Section III

A veterinarian should not employ his professional knowledge and attainments nor dispose of his services under terms and conditions which tend to interfere with the free exercise of his judgment and skill or tend to cause a deterioration of the quality of veterinary service.

Section IV

A veterinarian should strive continually to improve veterinary knowledge and skill, making available to his colleagues the benefit of his professional attainments, and seeking, through consultation, assistance of others when it appears that the quality of veterinary service may be enhanced thereby.

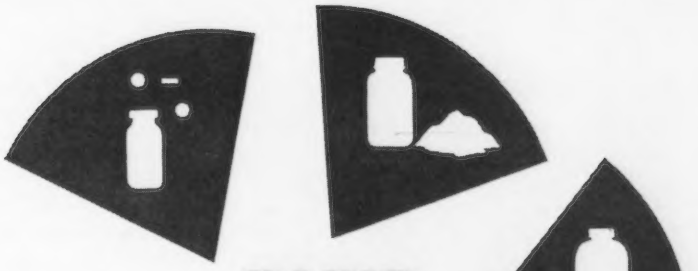
Section V

The veterinary profession should safeguard the public and itself against veterinarians deficient in moral character or professional competence. Veterinarians should observe all laws, uphold the honor and dignity of the profession, and accept its self-imposed discipline.

Section VI

The responsibilities of the veterinary profession extend not only to the patient but also to society. The health of the community as well as the patient deserves his interest and participation in nonprofessional activities and organizations.

when the action must be...



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Important: Milk from treated animals should be discarded or used for purposes other than human consumption for at least 72 hours after the last treatment.

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VETERINARY DIVISION BRISTOL, TENNESSEE

Profile . . . FRED H. McNAIR, D.V.M.



DR. McNAIR, right, honored by Mayor Hutchison of Berkeley for his work benefitting senior citizens.

Doctor Fred H. McNair is one of the oldest members of the California Veterinary Medical Association. He has, for over 50 years, been a member of both the AVMA and the CVMA. He is a Life Member of the AVMA, and in 1956, the CVMA awarded him Life Membership. Dr. McNair wrote to me as follows:

"My more than 50 years of membership in both associations were satisfying ones and I regret that lack of time and energy prevent me from being an active member. Following nature's rule, my 15 years of retirement have been a mixture of joy and sadness with ups and downs of health. At 88 years of age I now enjoy reasonably good health which is a fair record for one who was a sickly child, supposedly doomed to an early death.

"I still take an active part in Berkeley's Annual Children's Pets Exhibition which I started 32 years ago and for the past seven years I have put much effort into the Senior Citizens movement, serving for two years as president of a local club. During my term of office we organized another such club in another section of our city and its membership is rapidly increasing. Working for the interests of both children and retired adults has been satisfying and appreciated.

Six years ago our city recreation department presented me with a memorial plaque in honor of my work with children and later our Mayor presented me with a certificate of appreciation for my work with retired people.

"If in the future you find yourself with idle time on your hands, I can recommend participation in Senior Citizens activities as a rewarding experience. I thank you for your several courtesies and hope for you many more fruitful and pleasurable years."

I thought the members would be interested in knowing of the splendid work that Dr. McNair has done during his retirement years.

CHARLES S. TRAVERS
Retired Executive
Secretary, CVMA

New Accredited Bovine Tuberculosis Control Areas

State Director of Agriculture James T. Ralph announced that the counties of Butte, Kern, Los Angeles, Madera, Marin, Plumas, San Benito, Santa Clara and Sierra have been redeclared modified accredited bovine tuberculosis control areas. Accredition status indicates that the incidence of tuberculosis in cattle within the area is less than one half of one per cent.

Although all California counties have maintained this status since 1940, re-evaluation is made at regular intervals by the California Department of Agriculture. Continuous testing is conducted in all counties to reduce further the incidence of tuberculosis and to protect California's dairy and beef cattle industry.

Ralston Purina Research Fellowship Awards

Ten fellowships, in the amount of $2,000 each, will again be granted this year by the Ralston Purina Company for graduate study in agricultural research.

Representing the veterinary profession will be Dr. W. A. Hagan, on the committee to select recipients. Application blanks for the awards may be obtained by writing the Ralston Purina Research Awards Committee, c/o Mr. J. D. Sykes, Ralston Purina Company, St. Louis 2, Mo.

To the California Veterinarians

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Surgical Operation Expense (based on schedule of operations)..... $10.00 to $300.00

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Simplified Procedure for Brucellosis-Free Cattle

A simplified procedure for the re-certification of range cattle herds previously declared brucellosis-free has been in operation on a trial basis for several months in several Northern California counties.

Director of Agriculture James T. Ralph said the trials have convinced veterinarians in the Bureau of Livestock Disease Control that the plan will work successfully in California. He stated, "The new method will save cattlemen considerable expense and avoid inconveniences found in other methods of collecting blood samples."

Based on the Northern California tests, Director Ralph has approved a Department plan to expand the program to include all of the California counties presently certified, and to other counties of the State as they become certified.

The new method centers on the collection of blood samples for brucellosis tests at slaughtering plants instead of at the ranch. The plan, adopted by the U. S. Department of Agriculture for use nationally, has been demonstrated to operate successfully in other states in the west and south.



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AVMA Research Fund

Future veterinary research workers and teachers can expect to receive a boost from the veterinarians' most faithful friend — his wife.

In a nation-wide fund-raising effort, the Women's Auxiliary to the AVMA will endeavor to raise $75,000 for the AVMA Research Fund during the early part of this year (1961). The organized program will seek to personally solicit more than 15,000 AVMA members in the United States and Canada for support of the fund.

Organized in 1942, the Research Fund provides financial aid, through the AVMA Fellowship Program, to graduate veterinarians seeking additional training in research or teaching. The Fellowship program is administered by the Research Fund Trustees and the national association's Council on Research. It has provided aid to more than 60 veterinarians for graduate research studies. Counted among these are many present leaders in the profession.

Slated to start in February, the Auxiliary's program will be conducted by State and Provincial Chairmen who will organize individual members of the Auxiliary as solicitors. Each State will compete to raise the highest percentage of its quota.

Dr. Ernestine Payen is director of District X, comprising Arizona, California, Hawaii and Nevada. California's quota leads the nation—$6,679.66.

Charles Paul Heads Calif. Department of Agriculture

Charles Paul, a Clovis farm leader, has been appointed Director of the State Department of Agriculture.

He succeeds Dr. James T. Ralph, who will join President John F. Kennedy's administration as an Assistant Secretary of Agriculture. Dr. Ralph, of Sacramento, was sworn in as the State's Director of Agriculture early this year.

Mr. Paul, 48, has been a member of the State Board of Agriculture since his appointment by Governor Brown on March 23, 1959.

A native of Texas, he came to Fresno County in 1937 and has been active there since as a poultryman, orchardist and grain farmer.

Animal Husbandry Livestock Day Held

A full and factual program for swine raisers was one of the attractions at the 1961 Animal Husbandry Livestock Day held January 27 on the Davis campus of the University of California.

New research by University of California scientists on the space requirements for confined hogs was described by T. E. Bond, USDA agricultural engineer.

Reuben Albaugh, extension livestock specialist, spoke on the raising of hogs on pasture.

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"...has brought considerable change in the management and treatment of animals"*



Weberlein and associates reported on the use of SPARINE in small animal practice. SPARINE was given to 249 dogs to facilitate examination and as an adjunct to local and general anesthetics. They found that SPARINE ". . . proved to be valuable in veterinary practice. The animal benefits by its use, the client is pleased and the veterinarian may work effectively."*

*Weberlein, M.K., et al.: J.A.V.M.A. *134*:518-519 (June 1) 1959.

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For further information on prescribing and administering SPARINE see descriptive literature, or current Direction Circular.

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Photo Highlights — MID

All attendance records were broken at the Midwi Conference, when 479 veterinarians registered dur the 3-day meeting. In addition, nearly 200 were attendance from the faculty, college students, speak and guests. Dr. E. A. Rhode, School of Veteri Medicine, University of California, was program cha man of the well-balanced large and small ani sessions. For the first time Regulatory Veterinari had their own program, arranged by Dr. J. E. Stu Chief, Division of Animal Industry, California D partment of Agriculture. The closed circuit televi



Dr. Russell P. Cope, Berkeley, was first veterinarian to pre-register for the Midwinter Conference. **Ken Humphreys,** right, hands Dr. Cope registration badge, receipt and Alumni Dinner tickets.



Workshops — Staff at Davis presented demonstrations, repeated at intervals so groups could participate in discussions and examinations.



Message Center an innovation. CVMA B vided colorful booth with special phone Barbara Doty, Minnie Warren and Carlo



Dr. W. W. Putney, general chairman, CV program committee, consults with **Dr. E. A. Rhode,** conference chairman.



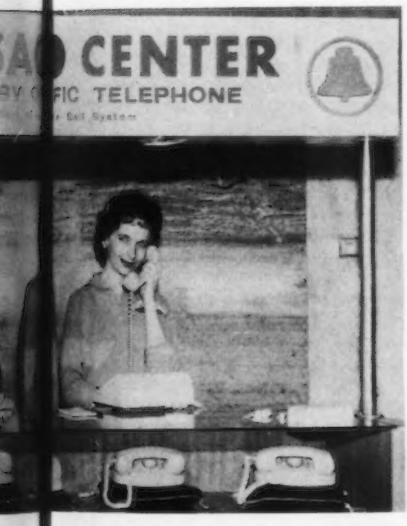
Left — **Dawn Loewen,** California Dairy Princess States promoting American Dairy Association of Co Conference. In photo are **Dr. E. R. Braun,** president **D. M. Junaerman; Dr. W. E. Steinmetz,** third v CVMA, and **Dr. E. A. Rhode,** program chairman.

NTER CONFERENCE, 1961

Midwi ogram, sponsored by Pitman-Moore Company, was ed dur ce again a highlight of the meeting. Drs. E. A. Rhode 0 were d J. W. Kendrick were moderators. On Wednesday, , speak ebruary 1, the 10th Annual Western Poultry Disease Veterin nference was presented. Preceding the alumni dinner am cha d dance, Monday evening, January 30, a cocktail ll ani rty at the Sacramento Inn was hosted by drug firms. erinari r the list of sponsors see page 34, this issue. The E. Stu omen's Auxiliary held their luncheon on the Davis rnia I mpus, after which motion pictures were shown. televis



Thoroughbred Problems—Drs. W. P. Humphrey, John Carricaburu, chairman, Public and Professional Relations Committee; **E. R. Braun, W. R. Linfoot,** and **C. H. Burger** discuss thoroughbred problems while lunching on campus.



CVMA E ittee, assisted by Pacific Telephone Co., pro- phone calls to veterinarians at Conference. Girls: Carlos e-lunch sticker campaign was well publicized.



Dr. W. V. Lumb, left, Colorado State, chats with **Dr. J. E. Mosier,** Kansas State. Both were speakers.



Pitman-Moore Co. sponsored closed circuit TV. Pictured is preparation for treatment of cardiac standstill and ventricular fibrillation.



Ken Humphreys distributes phone-lunch campaign material to **Dr. C. L. Gooding,** USDA, left, and **Dr. J. E. Stuart,** California Department of Agriculture. Campaign was conceived by CVMA Ethics Committee.

Increase in CVMA Life Insurance Benefits

The many members of our Association whose lives are insured in the group life insurance plan underwritten by the Union Central Life Insurance Company will be very pleased to read this announcement.

All members except those who enrolled for the plan during the past year had their insurance raised on October 1, 1960. Those members under age sixty were provided an additional $1,000 of insurance, and the members between the ages of sixty and seventy received an additional $100 worth of insurance. Certificates covering this increase will be soon mailed to these members. The premium paid for this additional insurance was obtained by the use of liberal dividends declared by Union Central on the insurance owned by our members. The cost of insurance to our members was not increased, although their protection now is greater.

Our members under age sixty, who are insured under this fine plan, will now have a total of $13,500 Union Central group insurance protection. The members insured who are over sixty will have $3,700 of insurance. This low-cost group life insurance is made possible by the Association's sponsorship of this very worthwhile program.

New members of our Association who have not already enrolled for the plan should write Mr. Robert D. Davis, 409 Pioneer Building, St. Paul 1, Minnesota, for enrollment applications and rates for this extremely low-cost group life insurance.

Among other things . . .

THE VETERINARIANS' PRINTER

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QUICKIE BILLS

which

Cut Veterinarians' billing time in half! And get better results. Fastest, simplest, easiest, least expensive way for businesses and associations to minimize the monthly billing chore without change in procedure. In use by Veterinarians throughout the country. Write for a sample. Sold direct to you only by

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American Foundation for Animal Health to Continue Campaign

A five-way campaign of public education, encouraging animal owners to make greater use of their veterinarian's services, will be continued nationally in 1961 by the American Foundation for Animal Health.

The campaign will be underwritten by member companies of Associated Veterinary Laboratories. It will be a coast-to-coast project and will continue throughout the year in media calculated to reach animal owners at their own local level.

Highlights of special interest to veterinarians include:

Farm magazines—82 national, regional and state farm publications to be supplied with monthly feature articles.

Daily newspapers—681 dailies and news bureaus to be furnished timely news articles on animal disease subjects throughout the year.

Weekly newspapers—1,452 weekly and small town daily papers to be supplied with monthly syndicated columns on animal disease problems and the values of veterinary service.

Television — 163 stations to be furnished monthly programs.

Radio—405 radio stations to be provided with an average of ten animal health bulletins per month, each stressing veterinary service.

All this activity will seek to do two things, says a spokesman for American Foundation for Animal Health: First, to make the animal owner more conscious of disease problems and the losses they can cost him; second, to stress the importance of calling a veterinarian promptly on all animal health matters, and relying on the veterinarian as the best way to guard livestock profits.

Applicants

L. E. Bartelt, Sacramento. Vouchers: E. R. Braun, W. E. Steinmetz.

Hyman H. Parrell, San Diego. Vouchers: W. J. Dedrick, E. R. Quortrup.

Eugene T. Metz, Anaheim. Vouchers: Burt H. Rice, W. J. Winchester.

J. A. Marron, Covina. Vouchers: R. J. Schroeder, Ralph H. Scofield.

Tom K. Spencer, Los Altos. Vouchers: E. R. Braun, W. E. Steinmetz.

Walter White Sadler, Davis. Vouchers: K. G. McKay, D. E. Jasper.

Donald E. Stover, Sacramento: Vouchers: Gordon Shultz, H. G. Wixom.

Ralph J. Holte, Davis. Vouchers: H. G. Wixom, J. E. Stuart.

Robert M. Lochtie, Eureka. Vouchers: D. W. Butchart, Mike Lunstra.

Robert M. Nance, Long Beach. Vouchers: Philip D. Plocher, Melvin J. Marcus.

W. A. Marsden, San Bruno. Vouchers: E. R. Braun, W. E. Steinmetz.

Open Teat Sinus Surgery*

JAMES H. STEERE, D.V.M.

Livestock Practice Editor, Modern Veterinary Practice, Santa Barbara

This technique constitutes the major theme of the article and the principle outlined here will usually apply to the other types of teat surgery.

Pathologic conditions which may require this approach are:

(1) Teat spiders, in which the accessory glands underlying the mucosa enlarge in size and form small tumors which, because of size or number, block the flow of milk through the sinus. This condition is usually seen in the fresh multiparous cow. In herds where routine mastitis work is being performed, these involved quarters usually have a history of Micrococcus infection. A pathologist who examined sections of these tumors says, ". . . these are probably not neoplastic but represent chronic inflammation. The relationship to the dry period may be simply that they are able to proliferate undisturbed during this time, while attached exudate is continuously being knocked off during milking." In any event, there is usually a CMT 2 or 3 (California Mastitis Test, 1958) on milk from the involved quarter and usually a Micrococcus infection present at the time the gland is examined.

(2) Irritation and proliferation in the area of Furstenberg's rosette. Obstructions here can usually be excised through the streak canal but, if extensive, may require opening the sinus.

(3) Development of an occlusion at the annular fold in multiparous cows, and occasionally a congenital impatency of the annular fold in fresh heifers.

(4) Congenital impatency or atresia, or mechanical impatency of the teat sinus or udder cistern.

Diagnosis and Presurgical Preparation

Diagnosis of the various anomalies mentioned in the previous paragraph may be accomplished with a combination of "educated" finger tips and a 3-inch teat cannula. In general, if a stream of milk can be obtained by working the cannula up into the cistern, surgery will be successful (experience is invaluable in judging the help that can be rendered). If no milk is found in the cistern, there is usually an impatency of the lactiferous ducts, 12 or so in number; successful surgery here, while possible, requires more luck than skill and is further contraindicated because of hereditary implications. If the cannula cannot be inserted through the teat in the fresh heifer, it indicates a congenital atresia of the sinus for which there is little hope of correction.

The most prevalent type of occlusion in the sinus, however, is the teat spider, and a description of its removal will be used to illustrate open-teat surgery. Presurgical preparation consists of taking a sterile Hotis sample for bacteriologic isolation and running a sensitivity test.

If the mastitis is severe, treatment should precede surgery. If there is no response to treatment, surgery is contraindicated unless the owner wishes to dry the affected gland, keep the cow as a three-teater, treat the quarter when dry, and have the surgery done during the subsequent lactation. (This surgery is never performed on the dry cow since a good flow of milk is a necessary guide to an open teat.) Though surgery is practical on the standing cow, especially with the use of ataraxics, it is preferable to restrain the cow in lateral recumbency on the surgery table, if available. Because of this and the importance of aftercare, as much teat surgery as possible is done at the hospital.

The teat and surrounding portions of udder are clipped, scrubbed with surgical soap, and swabbed with a suitable disinfectant. Procaine solution (1%) is infiltrated around the base of the teat as far as the mucosa and as high on the udder as needed. This circular infiltration anesthetizes the entire teat without interfering with the normal anatomical relations along with the line of incision. The udder is draped for surgery.

Surgery

Instruments Used.—These include a small scalpel, six 4-inch curved mosquito forceps, grooved director, curved blunt-ended scissors, four Allis tissue forceps, teat cannulas, and a narrow Olsen-Hegar needle forceps.

The grooved director is passed through the streak canal and into the sinus as far as the tumors to be removed. With the grooved director as a guide, a longitudinal incision is made into the sinus through the latero-anterior wall of the teat. The length of the incision is governed by the extent of the tumor formation and should extend beyond its margins. Actually, the longer the incision the better the visibility within the sinus; the region of the streak canal and sphincter must be avoided. Bleeding vessels are clamped with the mosquito forceps and, if necessary, ligated with 000 catgut. (Prevention of postsurgical

(Continued on page 32)

*Presented on Closed Circuit TV, Midwinter Conference, Davis, Feb. 1, 1961. Accompanying text reprinted from the *Journal of the AVMA*, Vol. 136, No. 2, Jan. 15, 1960. (Authored by J. H. Steere, Kenneth M. Moody and John Nealy.)

News... FROM OUR ADVERTISERS

Allied Laboratories, Inc., parent firm of **Pitman-Moore Company** of Indianapolis, became a part of the Dow Chemical Company on December 30. Allied will continue to operate under its present officers as a division of Dow. No change in personnel or in operating plan of Allied is contemplated.

* * *

After many months of testing and research, **Kal Kan Foods, Inc.,** a leading Los Angeles pet food producer in the West, has introduced an unusual new product, new Kal Kan Chicken and Fish.

Since the household cat has been known over the years as a finicky eater, this company undertook the development of a food which would contain the broadest possible appeal. Under the close supervision of Kal Kan's veterinarian consultants, Drs. Brad Crundwell and Jack Hensley, careful attention was paid to the nutritional requirements as well as the important taste appeal factors. The combination of chicken and fish in a chicken broth proved to be the best of the many hundreds of formulas which were tested.

Poodles? Puddles? Troubles?

STA-CRETE-
an epoxy resin,
impervious to animal stains,
can solve your troubles.

Applied with brush or roller,
STA-CRETE-

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- Waterproofs
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- Decorates

Concrete and
Wood surfaces.



For Further Information Write to:

STA-CRETE Inc., 115 New Montgomery, San Francisco

Harry W. Boothe, D.V.M., has been appointed assistant veterinary technical director of **Armour Pharmaceutical Company,** John O. Gwin, Veterinary Department general manager, announced.

Dr. Boothe has been in small animal practice in Chicago since his graduation from Ohio State University in 1944.

* * *

Lewis E. Harris has been named president of **Norden Laboratories, Inc.,** to succeed Dr. E. C. Jones who will become chairman of the board of the Lincoln, Neb., veterinary biological and pharmaceutical firm. Harris joined the Norden staff in 1934 as consultant. He is past-president of the Nebraska Public Health Association, the Nebraska Chemical Society, and the American Council of Independent Laboratories.

* * *

Frank T. Jacobs has been selected president and general manager of **Jensen-Salsbery Laboratories, Inc.** He was vice-president of The Wm. S. Merrell Company of Cincinnati, pharmaceutical drug subsidiary of Richardson-Merrell, Inc. Dr. Vladimir Dvorkovitz, former president of Jensen-Salsbery, has been made special assistant to H. R. Marschalk, executive vice-president of Richardson-Merrell.

Dr. Stanley A. Vezey has been named director of Clinical Medicine at Jen-Sal. Dr. Vezey received his D.V.M. degree at Texas A. & M. in 1944.

A new antibiotic formulation designed exclusively for use by veterinarians in the improved treatment of infectious mastitis, has been introduced by **Chas. Pfizer & Co., Inc.**

The preparation—known as Mastalone—is a stable, free-flowing, non-irritating formula, providing a wider range of anti-microbial activity through a first-time combination of three different antibiotics plus an anti-inflammatory agent.

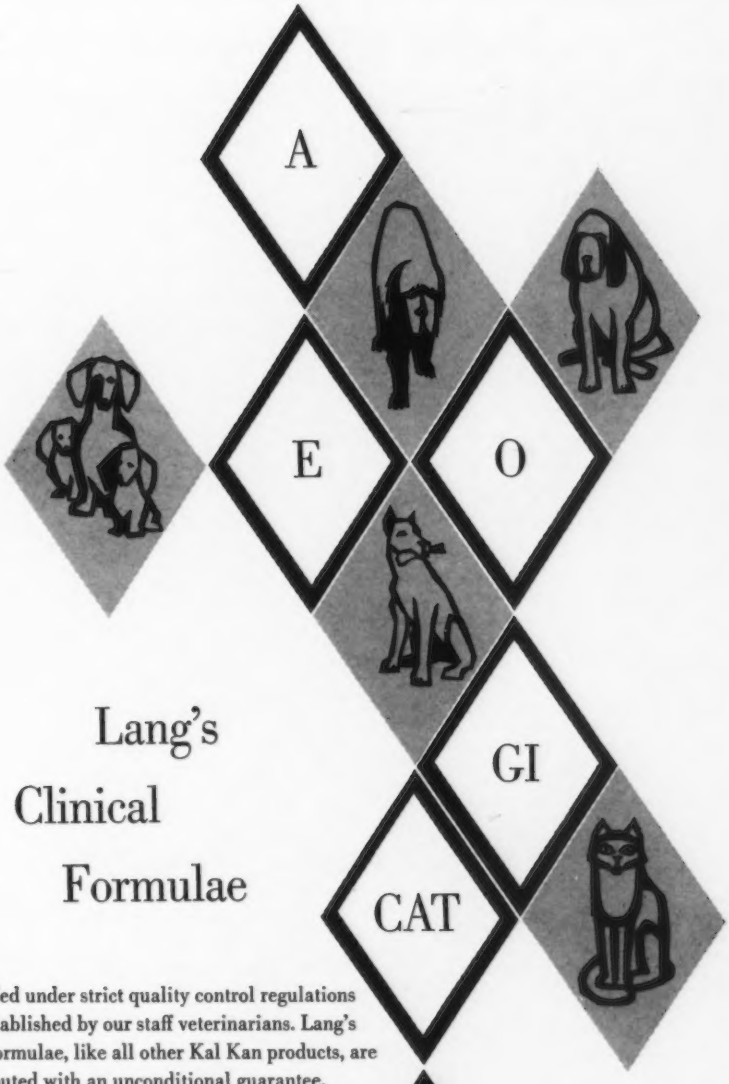
* * *

The James E. Howard Company, a San Francisco firm, is now the only western source for all types of forms and stationery used in the practice of veterinary medicine.

* * *

Myron F. Andrews, D.V.M., has been appointed director of the large animal clinical research section of The Norwich Pharmacal Company, Dr. Harold D. B. Roberts, head of the company's division of veterinary medicine, has announced.

In his new position, Dr. Andrews will be responsible for clinical research and evaluation of new drugs developed by the company, particularly the nitrofurans, for the treatment of large animal diseases. These drugs are distributed to the veterinary profession through the **Eaton Laboratories Division.**



Lang's Clinical Formulae

Compounded under strict quality control regulations established by our staff veterinarians. Lang's Clinical Formulae, like all other Kal Kan products, are distributed with an unconditional guarantee.

California veterinarians feed and recommend more Kal Kan products than any other.

AVAILABLE THROUGH VETERINARIANS ONLY



Veterinary Division Kal Kan Foods, Inc. ▼ Oakland and Los Angeles, California

News from Merck . . .

SULFABROM SOLUTION 6.25%
to supply your total sulfa



joins SULFABROM BOLUSES needs on an exclusive basis

NEW SULFABROM SOLUTION 6.25% AND SULFABROM BOLUSES ARE THE ONLY SULFAS AVAILABLE EXCLUSIVELY TO VETERINARIANS.

Together, these two forms of SULFABROM will supply you with all you require for sulfa treatment—in the field or in your dispensing. Together, they will serve you with greatest efficacy and economy.

PROLONGED ACTION: Ordinary sulfonamides, including sulfathiazole and sulfamethazine, peak during the first 24 hours after treatment, but then soon fall below the necessary or effective 5 mg./100 cc. level. Not so with SULFABROM SOLUTION or SULFABROM BOLUSES. They can establish and maintain therapeutic blood and plasma levels *for as long as 48 hours* in cattle.

DOSAGE AND ECONOMY: Recommended treatment levels with new SULFABROM SOLUTION are 25-50 cc. per 100 lb. of body weight when injected intravenously and 50 cc. per 100 lb. of body weight when injected intraperitoneally. Cost of treatment per animal is remarkably low—only about 50c to $1.

RESULTS: The following remarks are abstracted from actual clinical investigation reports on the use of SULFABROM SOLUTION on file at the Merck Animal Science Research Department. (1) "*Symptoms:* Recently shipped-in cow. Temperature 106°. Labored breathing. Rales audible over chest area. *Diagnosis:* Pneumonia (shipping fever complex). *Treatment:* 700 cc. SULFABROM SOLUTION in one dose daily for two days. Sixty grams of SULFABROM BOLUSES given at time of I. V. injection. *Results:* Temperature returned to normal in 24 hours". (2) "*Symptoms:* Dystocia with removal by forced extraction of putrified fetus. Temperature 104°. Rapid pulse and breathing. Anorexia. *Diagnosis:* Metritis. *Treatment:* Two doses SULFABROM SOLUTION 700 cc. each. *Results:* Temperature 101.6° in 24 hours. Appetite returning". (3) "*Symptoms:* Foul hoof—limited to 'between the toes' variety with swelling. *Diagnosis:* Foot rot. *Treatment:* 700 cc. SULFABROM SOLUTION *Results:* Eight of 11 animals walked normally in 48 hours with swelling reduced to normal or near normal. Three animals required second treatment and returned to normal in 48 hours."

These quoted reports are typical of those being received from clinical investigators and from veterinarians like yourself. We believe they demonstrate that *the only sulfas available to you exclusively*—new SULFABROM SOLUTION and SULFABROM BOLUSES—are also the most effective you can use.

Merck Chemical Division, Merck & Co., Inc., Rahway, New Jersey.

SOLUTION 6.25%

SULFABROM®

(Sodium Sulfabromomethazine) BOLUSES

VETERINARY

MERCK

WARNING: Milk taken from dairy animals within 4 days after the latest treatment must not be used for human consumption.

OUT-OF-STATE NEWS

Effective January 1, 1961, Dr. John L. O'Harra will hold the position of Director, Division of Animal Industry, Nevada State Department of Agriculture.



JOHN L. O'HARRA

Dr. O'Harra, a graduate of Iowa State University, 1943, has been active in many phases of diagnostic, research and regulatory veterinary medicine in the State of Nevada during recent years and has served as assistant director of the Division for the past four years.

The new director is currently serving as vice-president of the Nevada State Veterinary Association, and is an active member of the Western Nevada Veterinary Society, the American Veterinary Medical Association, the U. S. Livestock Sanitary Association, and the Intermountain Veterinary Medical Association. He will also serve as ex-officio secretary-treasurer of the Nevada State Board of Veterinary Medical Examiners. A member of three honor societies, Phi Kappa Phi, Phi Zeta, and Gamma Sigma Delta, Dr. O'Harra is also a fellow in the American College of Veterinary Toxicologists.

Dr. W. F. Fisher, who has served as Director, is exchanging positions with Dr. O'Harra and will continue with the Department as assistant director. It is Dr. Fisher's desire to assume a less active role after serving the veterinary profession for 37 years in a regulatory capacity. His services will be of great value to the Department from his many years of experience as a regulatory official.

* * *

County Awards Dairyman $11,783

Maurice A. Ketscher, a dairy farmer, won an $11,783 judgment in a superior court jury trial of a suit against the Cutting Veterinary Supply and one of its salesmen, Leonard Mayfield.

The action was brought over damages Ketscher says he suffered when a chemical purchased in March, 1959, from the firm proved unsuitable for the treatment of dry cows.

Superior Judge Philip Conley conducted the trial.

From The Fresno Bee, Dec. 8, 1960

CALIFORNIA VETERINARY MEDICAL ASSOCIATION

Veterinarians: **Do You Have a Professional Liability Policy?**

MALPRACTICE INSURANCE
$2,000 per Animal
$25,000 per Accident



Premises and Business Liability Coverage
$25,000 per Person
$50,000 per Accident



Insurance on Animal in Care and Custody
$2,000 per Animal
$25,000 per Accident



PRODUCTS LIABILITY
Coverage
$2,000 per Animal
$25,000 per Accident



SPECIAL 1-YEAR PREMIUM—$72.00

E. C. SMITH COMPANY

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For Effective Distemper Immunization



CANINE DISTEMPER VACCINE

MODIFIED LIVE VIRUS

Chick Embryo Origin, vacuum dried

Unique stabilizing menstruum used in manufacture:

- Protects the viability of the attenuated live virus during processing and storage.
- Assures high potency of vaccine after prolonged storage when kept under refrigeration.

Available in packages of 10 vials (2 cc.) of dried vaccine and 10 stoppered vials (2 cc. each) of neutral diluent, especially prepared for the solution of the vaccine.

Information and prices sent on request.

Winthrop **LABORATORIES**
1450 Broadway, New York 18, N. Y.

Open Teat Sinus Surgery

(Continued from Page 25)

hemorrhage is important because clots fill the lumen of the sinus making milking extremely difficult and painful for the cow.) Usually a tourniquet is not used because, unless a short incision is possible, it will interfere with, and distort, the surgical field. With the sinus exposed, the mucosa is everted through the incision and the tumors excised with the scissors. By everting the end of the teat through the incision, the entire length of the teat sinus from the rosette to the annular fold can be made accessible. If the cistern is involved, as in congenital impatency of the lactiferous ducts, and surgery is attempted, the incision must be extended up into the parenchyma of the gland. Hemorrhage is then extensive, ligation of blood vessels impossible, and the surgery is blunt, blind and sanguineous.

After thorough removal of all diseased tissue, the mucosa with some submucosa is grasped with Allis tissue forceps and sutured with a ⅛-inch interval continuous, or continuous interlocking, stitch of 000 catgut with a 14-gauge, full-curved, atraumatic needle. This is the only closure which is critical and great care is needed to obtain adequate and close apposition of the mucosa. (Though we have not observed it, some surgeons feel that fistulas are more likely to develop when the suture material goes through the mucosa into the lumen of the sinus, and they, therefore, close this layer by suturing only into the submucosa.) After closure of the mucosa, 10 cc. of a suitable dye (*i.e.*, Neoprontosil, Winthrop) are infused into the sinus to check for leaks in the suture line. The submucosa is closed immediately over the mucosal suture with 000 catgut using a figure-8 or continuous mattress suture. The skin and muculovascular layer are closed with an interrupted vertical mattress suture of any suitable, noncapillary material. The needle is inserted ¼ to ⅓ inch from the incision, ¼ inch deep, and out on the other side of the incision the same distance. The needle is then returned to the original side of the incision, just biting the two lips of the incision in crossing, and tied. Strength is derived from the deep suture and skin apposition, without inversion, from the shallow bite. A tendency to suture the teat too tightly is overcome by bringing the incision only into loose apposition when the sutures are tied. Swelling of the tissue will complete the closure.

(A method of teat suturing using a continuous mattress suture, biting deep to the submucosa on the first line along the incision, and shallow for skin apposition on the second line, or return suture is shown. Aftercare recommended is a plaster and sulfonamide bandage covering the teat for one week, and cannula milking with subsequent antibiotic infusion.)

Aftercare

Only proper aftercare will guarantee success in surgery. Mastitis is usually present, so the quarter is treated after each milking for three days with the antibiotic indicated by the presurgical sensitivity test. A teat cannula for milking the quarter is not needed and, in fact, is contraindicated, because it will irritate already inflamed tissue. A milking machine may be used on the teat when the cow is sent home 24-48 hours after surgery, provided, of course, that antibiotic-contaminated milk from the affected quarter does not go into the general milk supply. Tight bandaging is contraindicated as it prevents normal blood and milk flow. However, the teat may be covered the first day or so with material such as a 6-inch milk filter pad tied loosely with multiple looping of umbilical tape or string. The filter pad, except on large protruding teats, stays quite well and protects the skin incision until it is well sealed. Since teat skin is subjected to continual manipulation, we advise removal of the sutures only after ten days to two weeks. By this time, the shallow bite in the vertical mattress suture has usually sloughed out, leaving a large-looped simple interrupted suture, which, if plastic-coated, is easily removed by the owner. The mastitis findings are recorded so that subsequent dry treatment may be used in the quarter.

Dr. Ozanian on Hoard's "Round Table"

CVMA past-president Charles H. Ozanian discussed "Precautions When Buying Cattle," in the Dec. 25, 1960, issue of *Hoard's Dairyman*, under the "Hoard's Dairyman Round Table" section of that publication.

He gives various precautions to heed from a veterinarian's point of view.

Other veterinarians offering advice on the Round Table were Dr. Dan J. Anderson, Texas; Dr. Richard W. Carter, South Carolina, and Dr. C. C. Moore, Missouri.

In the March-April Issue:

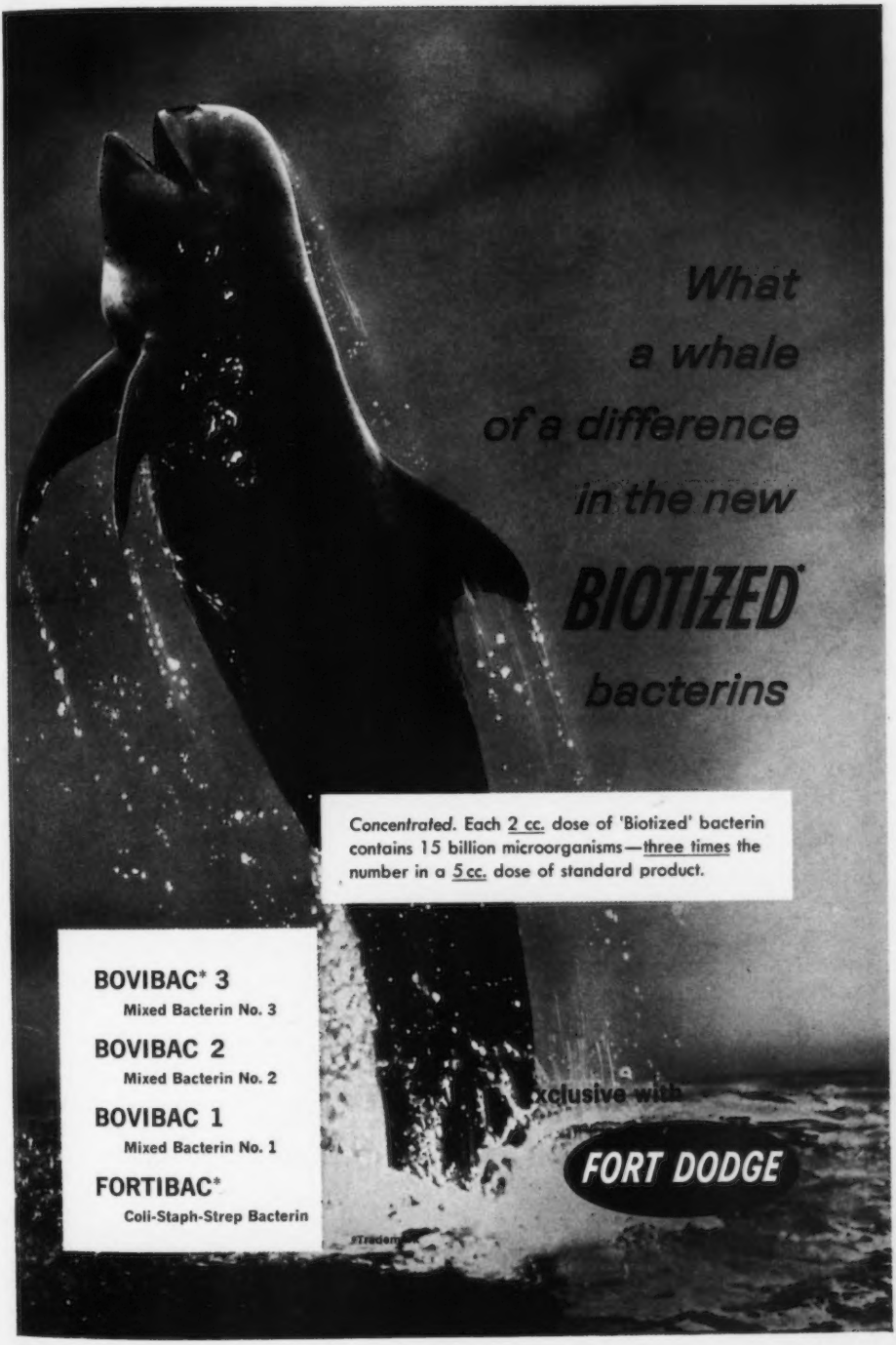
Speaker's papers received at

THE MIDWINTER CONFERENCE

will be printed

in the next issue of the

CALIFORNIA VETERINARIAN


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a whale
of a difference
in the new
BIOTIZED®
bacterins
Concentrated. Each 2 cc. dose of 'Biotized' bacterin contains 15 billion microorganisms—three times the number in a 5 cc. dose of standard product.
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Mixed Bacterin No. 3
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Mixed Bacterin No. 2
BOVIBAC 1
Mixed Bacterin No. 1
FORTIBAC*
Coli-Staph-Strep Bacterin
xclusive with
FORT DODGE

A "Thank You"

To Our Veterinary Suppliers

Representatives of the Veterinary Suppliers agreed unanimously, as did the CVMA in 1959, to abolish Hospitality Rooms at all CVMA meetings.

In view of the fact that no Exhibit Booths were allowed at the Mid-winter Conference at the School of Veterinary Medicine, the Suppliers agreed to contribute to a combined Cocktail Party on the evening of January 30, preceding the Alumni Banquet at the Sacramento Inn.

The occasion was highly successful and enjoyed by all who attended. To the following firms, hosts of the affair, the California Veterinary Medical Association expresses its thanks and deep appreciation for their donations:

American Cyanamid Company
Astoria Body Corporation
H. C. Burns Company Inc.
California Medical Supply Co.
Central City Chemical
Cutter Laboratories
Diamond Laboratories
James E. Howard Co.
Jensen-Salsbery Laboratories, Inc.
Kal-Kan Foods Inc.
Sharpe & Vejar Company

Sincerely,

E. R. BRAUN, D.V.M.
President, CVMA

. . . And Now, Let's Think About

LONG BEACH IN OCTOBER!

It isn't too far away! Our 73rd Annual Convention, October 23-25, 1961, in the Lafayette Hotel, Long Beach, promises to be the finest in the Association's history.

Dr. W. W. Putney, Second Vice-President and Program Chairman, has been working on the program for many months—and it will be OUTSTANDING!

We believe the new month—October—will be better for all members.

Be sure to reserve these dates:

OCTOBER 23-25

EXHIBITS Already 40 Exhibitors have signed up for display space at the Lafayette Hotel. IN ALL THERE WILL BE NEARLY 80 EXHIBITS. This will be the largest group of Exhibitors we have ever had, a glowing tribute to our Association.

KENNETH HUMPHREYS,
Executive Secretary

The Editor's Corner

Perhaps all our members are not silver-tongued orators, but we'll wager that any one of them can deliver a highly entertaining talk on veterinary medicine. And we don't mean a technical dissertation, but rather an informative talk before service clubs, PTAs, lodges, etc.

The Speakers' Bureau of the CVMA has been encouraging members to make themselves better known in their communities by seeking speaking assignments. There are scores of subjects, such as the veterinarian's role in public health; veterinary medicine as a career; history of veterinary medicine, etc. Quite a few members agreed to give talks which would aid the veterinary profession. Some have advised us of their presentations; others have remained silent.

Talking before large or small groups of people from all walks of life is the best way to build good Public Relations. As Past President Ozanian said in the July-August 1959 issue of THE CALIFORNIA VETERINARIAN: "Our profession is too modest in 'selling' its activities to the public." He went on to say that the public should know that the profession is "alive and active."

We have a very able Public and Professional Relations Committee, headed by Dr. John B. Carricaburu. Each member of that committee would certainly feel that we were on the right track if at least 50 veterinarians, up and down the state, would speak before public gatherings within the next few months.

And while on the subject of public relations some interesting facts have come to light after reading an interview survey "What Newsmen Think of the AVMA." As a constituent association, California stands high in the opinion of newspaper and farm magazine editors and radio and TV farm commentators in the publicizing of its two annual meetings.

Northern California Military Veterinarians Met January 20

The regularly scheduled quarterly meeting of Northern California Military Veterinarians was held on January 20 at Mather Air Force Base.

Lt. Col. James C. McIntyre, USAF, VC, was moderator, and Major William H. Watson, Jr., USAF, VC, was coordinator.

Speakers included Dr. R. A. Bankowski, Dr. Ghery D. Pettit, Mr. J. M. Vanlandingham, Lt. Col. Charles V. L. Elia, Mr. T. L. Tollefson, Mr. W. L. Sandberg and Mr. Daryl Cooper.

Other quarterly meetings will be scheduled at Letterman General Hospital, Presidio of San Francisco, and all practitioners, and retired or reserve Veterinary Officers in northern California are invited to attend these meetings.

Oregon VMA Holds Meeting

The Oregon VMA held a three-day convention in Portland, February 2-4. Four speakers who attended the CVMA Midwinter Conference addressed the Oregon gathering. They were: Drs. William V. Lumb, David K. Detweiler, Douglas C. Blood and R. E. Pierson. President of the Oregon VMA is Dr. Roy Peterson. Dr. O. A. Muth is secretary-treasurer.

American Animal Hospital Assn. Meeting in April

The American Animal Hospital Association will hold its next meeting April 16 through 21, 1961, at the Sheraton-Jefferson Hotel in St. Louis.

The Region 5 meeting of the AAHA will be held at Del Monte Lodge, Pebble Beach, June 12 and 13.

Cattle Scabies Regulation

The California Department of Agriculture has amended California's cattle scabies regulation to restrict cattle entering California from Oklahoma.

Scabies has been found in a pasture herd located in Texas County, Oklahoma, in the "Panhandle" area bordering Kansas, Colorado and Texas and in which area scabies has been troublesome in recent years.

Present State Department of Agriculture regulations require all cattle entering California from Oklahoma must be treated for scabies, and be accompanied by a permit and an official certificate. Similar regulations now apply on cattle entering California from Colorado, Illinois, Kansas, Nebraska, Texas and two counties in Utah and Wyoming.

Third Annual Southern California VMA Symposium to Be Held March 1

The third annual SCVMA Symposium will be held March 1 at the Ambassador Hotel, Los Angeles. This year's subject will cover "Diseases and Surgery of the Eye." Guest speaker will be Dr. William G. Magrane, Indiana practitioner, who is recognized as the top authority on canine ophthalmology.

Radio Series Aids Veterinary Public Relations

The Alameda-Contra Costa VMA has been donated a weekly quarter-hour by station KKIS, Pittsburg, California, to broadcast "Animal Health" at 10 a. m. each Sunday.

Starting on January 1, Doctors William E. Stansbury, Robert B. Abbott and Lawrence M. Proctor have broadcast the program, the format of which is based on question and answer procedure. Other veterinarians in the Association will be called upon to serve from time to time.

In order to remove any stigma of personal advertisement, only the first names of the veterinarians are used on the program. KKIS operates on a frequency of 990 and is heard from Sacramento to Monterey. Many interesting questions have been sent in by listeners and it is the opinion of the Alameda-Contra Costa VMA that excellent public relations are being achieved.

Veterinarians in the area are invited to tune in on the broadcast and to offer suggestions.

Addendum on Col. Leininger's Death

In announcing the death of Col. Daniel B. Leininger on October 6, 1960, as reported in the last issue of *The California Veterinarian*, we failed to note that he was a 1906 graduate of Kansas City Veterinary College.

After joining the U. S. Army, he spent 1913-14 with the 8th Cavalry in the Philippines, and in 1915 he joined the 7th Cavalry in Douglas, Arizona, where he participated in the invasion of Mexico under General "Blackjack" Pershing, and went on the Villa expedition.

"Message Center"

The Ethics Commitee, CVMA, sincerely hopes you availed yourself of the "Message Center" telephone booth, installed by the Pacific Telephone Co. at the Midwinter Conference. This was the first time it had been used by a professional association in California.

New Davis Program for Graduate Veterinarians

A new program to train graduate veterinarians in metabolic and hematological animal diseases began in January, 1961, at the School of Veterinary Medicine on the Davis campus of the University of California.

"The program aims to bridge the gap between fundamental research and applied clinical science," said Dr. Charles E. Cornelius, clinical pathologist at Davis. "In this way we hope to remedy the international shortage of veterinarians possessing special research training in these diseases."

Financial support for the program, in the amount of $150,000, has come from the National Institutes of Health; it is the first such grant ever awarded by NIH for training in veterinary clinical pathology.

The program will offer both M.S. and Ph.D. degrees and postdoctoral training in comparative pathology or physiology. Those candidates accepted will work on their research problems under the supervision of the program training staff, which includes Cornelius, Arthur L. Black, Jiro J. Kaneko, and Oscar W. Schalm, all faculty members at Davis.

The trainees will routinely visit various laboratories concerned with metabolic diseases on other University campuses during their course of study.

All candidates must qualify for admission into the graduate school at Davis, said Cornelius. Final selections will be by the training staff on the basis of ability, character, potential and academic record.

American Association of Equine Practitioners

The American Association of Equine Practitioners, youngest and the largest of the increasing number of specialty groups in veterinary medicine, held its 6th annual convention in Phoenix December 12-14. A record number of 253 doctors of veterinary medicine were in attendance for the 3-day professional program which covered all phases of the equine industry—ponies, pleasure horses, racing, rodeo, all breeds and all sports.

OPPORTUNITIES

Relief Veterinarian

Qualified and experienced. Have California license; will travel. Dr. J. Guthrie Blue, 2121 East Second Street, Tucson, Arizona. Phone, East 5-1685.

* * *

Veterinarian Wanted

Experienced small animal veterinarian for well-established S. F. Peninsula practice. Write, giving full details and salary wanted to Box A-114, THE CALIFORNIA VETERINARIAN.

* * *

Large animal man wanted for busy practice in Santa Barbara area. Write, giving full details, to Box A-116, THE CALIFORNIA VETERINARIAN.

* * *

Opening for veterinarian in modern, active small animal practice in East Bay. Excellent possibility for permanent associate or partnership. State remuneration desired and qualifications. Write Box A-112, THE CALIFORNIA VETERINARIAN.

* * *

For Sale

Small animal practice in prime San Francisco Peninsula location for sale. Two man practice with excellent growth prospects. Nearly new building. Terms and long lease. Reply, Box A-115, THE CALIFORNIA VETERINARIAN.

* * *

Mixed practice in Central Coast County of California for sale. Annual gross $50,000; to handle, $15,000. Write Box A-118, THE CALIFORNIA VETERINARIAN.

* * *

Small animal hospital, open and doing business in Long Beach. No investment; just pay rent and licenses; equip with drugs and medicines and take over. For further information write Dr. M. J. Marcus, 3198 Orange Ave., Long Beach 7, or call GArfield 4-8976.

* * *

Position Wanted

Thirty years experience in small animal practice. No objection to Saturday and Sunday work. Will consider opportunity for partnership. Write, Box A-117, THE CALIFORNIA VETERINARIAN.

* * *

Dr. Lee Wilson, 18152 Maple St., Lansing, Ill., wants small animal work in S. F. Bay Area about April 1st. Young, one year experience.

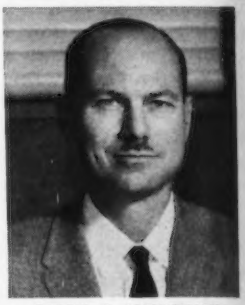
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To Buy or Lease

Dr. Donald B. Kerns, 12 Eldridge, Vacaville, Calif., Hickory 8-2059, wants to lease or buy small animal hospital in S. F. Bay Area.

LOCAL ASSOCIATION NEWS

Dr. Ralph C. Vierheller, small animal practitioner of Whittier was installed as president of the Southern California VMA at the annual Installation Ball held January 7 at the Ambassador Hotel, Los Angeles.



RALPH C. VIERHELLER

Dr. Vierheller succeeds Dr. Robert J. Schroeder.

A graduate of Colorado, 1939, Dr. Vierheller has been very active in SCVMA offices, and in addition has served on committees for the State and National Associations.

Other officers installed were Dr. John H. Hensley, president-elect; Dr. Fred P. Sattler, first vice-president; Dr. George N. Thomas, second vice-president; Dr. W. A. Young, treasurer, and Dr. F. M. Brennan, secretary. H. Don Mahan is executive secretary.

The decorations for the Installation Ball were under the auspices of the Women's Auxiliary.

* * *

Alameda-Contra Costa VMA

Newly-elected officers of the Alameda-Contra Costa VMA are: President, Dr. John S. Blackard; vice-president, Dr. L. M. Proctor; secretary, Dr. Donald Martin; treasurer, Dr. Clyde Brown.

At the November meeting Dr. Raymond Young gave a very interesting talk on the new Oakland Zoo. Doctors N. E. Clemens and A. O. Soave were unanimously elected honorary members in recognition of their long years of service to the profession.

* * *

Peninsula VMA

New officers of the Peninsula VMA are Dr. Arthur Gilger, president, and Dr. J. D. Wood, secretary. Dr. Ralph W. Fogleman, Hazelton-Nuclear Science Corp., Palo Alto, was guest speaker at the January 17 meeting.

* * *

Bay Counties VMA

Dr. W. T. Berner, San Rafael, has been elected president of the BCVMA for 1961. Other officers elected were: Dr. Roger Burr, San Francisco, vice-president; Dr. Thomas B. Condon, Berkeley, secretary, and Dr. John S. Blackard, El Sobrante, treasurer. Dr. L. O. Johnson, San Jose, is past president.

when firm control is essential in diarrheas...

Injectable

DIATHAL

FOR CATS, DOGS, HORSES

prompt anticholinergic blocking action on gut motility and hypersecretions • prevention of excessive fluid loss and dehydration • rapid relief of nausea and vomiting associated with gastroenteritis • wide range antibacterial coverage

packaging DIATHAL Injection, 10 cc. vials, bokes of 1, 6 and 36.

DIATHAL,® procaine penicillin G in dihydrostreptomycin sulfate solution with diphemanil methylsulfate.

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in small animals

FURADANTIN® veterinary

brand of nitrofurantoin

breaks the resistance barrier to clinical recovery

URINARY TRACT INFECTION: FURADANTIN therapy achieved clinical recovery in over 90% of the cases of acute or chronic urogenital disease in dogs and cats.[2] Pronounced symptomatic improvement occurred by the 4th day and complete recovery within 7-14 days.[3] Coles states, "One of the advantages of nitrofurantoin [FURADANTIN] in the treatment of canine nephritis is the fact that most microorganisms do not develop resistance to the drug, even after long periods of exposure to it."[4]

INDICATIONS: nephritis, cystitis, pyelonephritis; pre- and postoperative care of the urethra and bladder; prophylaxis in catheterized patients; and as an adjunct to surgical drainage in canine prostatic abscess.

CANINE TRACHEOBRONCHITIS: FURADANTIN constitutes modern, effective treatment for dogs with "kennel cough". When given orally for 5 days, FURADANTIN stopped coughing in 95% of 75 cases. In some animals, signs frequently subsided in 48 hours.[5] Mosier concludes, "In our experience, Furadantin has been considerably more effective than the various bacterins, antibiotics, vaccines, iodides, and chemotherapeutic agents which have been recommended for the treatment of tracheobronchitis in the past."[5]



available in 3 practical oral dosage forms:

FURADANTIN Ora-Bols® Veterinary, provides 50 mg. FURADANTIN in an excipient containing dextrose. Bottle of 100, scored, 50 mg. Ora-Bols.

FURADANTIN Tablets Veterinary, bottles of 100, scored, 10 mg., 50 mg. and 100 mg. tablets.

FURADANTIN Oral Suspension Veterinary: provides 5 mg. FURADANTIN in each cc. Bottles of 60 cc.

Available through your professional veterinary distributor

Nitrofurans—a *unique* class of antimicrobials—neither antibiotics nor sulfonamides

Ora-Bols is the Eaton tradename for small, bolus-shaped tablets.

EATON LABORATORIES
Division of The Norwich Pharmacal Company
NORWICH, NEW YORK

REFERENCES: 1. Michaelson, S. M., and Covert, M.: J. Am. Vet. M. Ass. 134:334 (Apr.) 1959. 2. Mosier, J. E., and Coles, E. H.: Vet. Med. 53:649 (Dec.) 1958. 3. Belloff, G. B.: Calif. Vet. 9:27 (Sept.-Oct.) 1956. 4. Coles, E. H., and Mosier, J. E.: Am. J. Vet. Res. 20:1020 (Nov.) 1959. 5. Mosier, J. E.: Vet. Med. 52:445 (Sept.) 1957.

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Intramuscular in the treatment of: bovine KETOSIS.

STRESS associated with: RETAINED PLACENTA, obstinate MILK FEVER, GRASS TETANY and SURGERY, LAMINITIS or FEED FOUNDER in cattle and horses; canine and feline DERMATOLOGIC DISORDERS, nonspecific LAMENESS, ARTHRITIS, SPONDYLITIS, VERTEBRAL DISC SYNDROME, SUMMER ECZEMA, ALOPECIA, OTITIS (with topical or systemic antibiotic treatment).

STRESS conditions associated with SYSTEMIC INFECTIONS (with appropriate antibacterial therapy) and TRAUMA.

Intrasynovial in the treatment of: RHEUMATOID ARTHRITIS, SPRAINS, BURSITIS (Wind Puffs, Road Puffs, Carpitis, Sore Knees, Thoroughpin, etc.).

Inflammation of articulations following TRAUMA or SURGICAL MANIPULATION.

Prolonged action—local or systemic—reduces need for short-interval repeat therapy.

Prompt, striking relief of symptoms [complete or conspicuous reduction in joint pain in 12-24 hours].

Slow solubility minimizes systemic effects ...anti-inflammatory action is entirely local when given by intrasynovial injection.

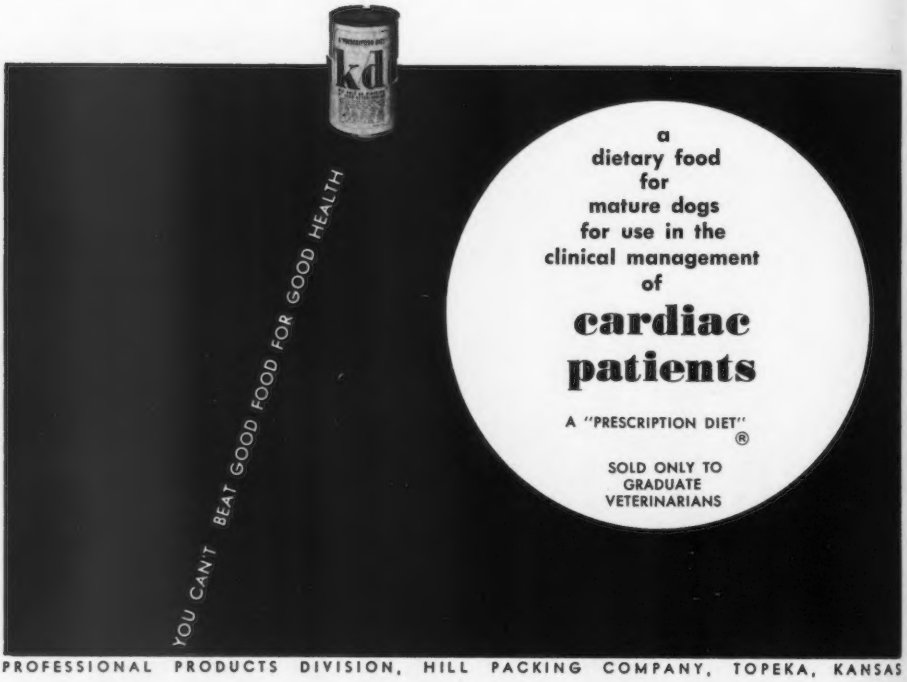
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No. 55491—Suspension HYDELTRONE—T.B.A. (20 mg./cc. of prednisolone tertiary-butylacetate) in 5 cc. multiple-dose vials. Sold to veterinarians only.

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Premises and Auto

Bodily Injury Liability
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Property Damage — Liability (Automobile)
$5,000.00 each occurrence.

Property Damage — Liability (Except Automobile)
$5,000.00 each occurrence.
$25,000.00 aggregate operations.
$25,000.00 aggregate protective.
As per vet. liability.

Medical Payments (Premises)
$10,000.00 aggregate.

Veterinarian's Malpractice Liability

1. **On and Off Premises Liability, Injury of Person, Destruction of Property.**
   A. Breach of implied contract, restraint, assault, slander, libel, malicious prosecution, replevin of property.
2. **Malpractice Liability.**
   A. Professional services rendered, mistake, error, etc.
3. **Animals in Care, Custody and Control of Doctor and Employees.**
   A. Loss, theft, escape, self injury, burglary, robbery, etc.
4. **Products Liability.**
   A. Goods or products, sold, handled, or distributed by insured.
5. **Contracted Liability.**
   A. Lease agreement, etc.
   B. Loss to animals by fire, maximum $1,000 per animal, $25,000 aggregate.*
6. **Auto Non-Ownership Liability.**
   A. Protects insured if employees use own car for business purposes.
   B. Automobile-hired, etc.
7. **Comprehensive Personal Liability.**
   A. Cover the insured for his personal act, and that of his family, services of part-time domestic employees, etc.
8. **COST FOR THE ABOVE $115.00 PER YEAR.**
9. **Owned Automobile at a Deviated Rate.**

*Can increase to $2,500.00 per animal and up.

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Minimum Premium $45.00 Deposit Premium $45.00

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*Pitman-Moore Company's trademark for 2,4-dimethoxy-6-sulfanilamido-1,3-diazine

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